

Notice of Allowability

Application No.

09/944,891

Examiner

Raj K. Jain

Applicant(s)

REMBOSKI ET AL.

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/14/06.
2. ☒ The allowed claim(s) is/are 23-33, ^{35 CP} ~~34~~-42, 44, 45 renumbered 1-21.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Gary Cummings (847) 862-0270 on 26 October 2006.

Cancel claims 34 and 43.

Amend claims 23, 25, 35, 36, 44 and 45 as follows:

23. (Currently amended) A vehicle comprising: a vehicle network communicatively coupling a plurality of devices within the vehicle, each device including an interface, and each device configured for an operation independent of the interface, wherein the coupling between devices includes at least one redundant path and the coupling defines multiple simultaneous communication paths, and

a router configured to determine at least one communication path from the multiple simultaneous communication paths, wherein one communication path comprises a no-go zone configured to carry at least one data packet to the exclusion of other data packets to provide assured communication capability between at least two devices associated with the no-go zone.

25. (Currently amended) The vehicle of claim 24 wherein the packet data protocol is selected from the group consisting of TCP/IP, and ATM, ~~INFINIBAND®, and RAPIDIO.~~

35. (Currently amended) The vehicle of claim 23 further comprising a steer-by-wire application, and wherein the steer-by-wire application is associated with a first device and a second device, the first device and second device connected by at least one no-go zone.

36. (Currently amended) A system within a vehicle, the system comprising:
a plurality of devices communicatively coupled by the system, each device including an interface, and each device configured for an operation independent of the interface, wherein the coupling between devices includes at least one redundant path and the coupling defines multiple simultaneous communication paths, and
a router configured to determine at least one communication path from the multiple simultaneous communication paths, wherein one communication path comprises a no-go zone configured to carry at least one data packet to the exclusion of other data packets to provide assured communication capability between at least two devices associated with the no-go zone.

44. (Currently amended) The system of claim 36 further comprising a steer-by-wire application, and wherein the steer-by-wire application is associated with a first

device and a second device, the first device and second device connected by at least one no-go zone.

45. (Currently amended) A vehicle comprising:

a vehicle network communicatively coupling a plurality of devices within the vehicle;

a plurality of devices communicatively coupled by the vehicle network, each device including an interface, and each device configured for an operation independent of the interface, wherein the coupling between devices includes at least one redundant path and the coupling defines multiple simultaneous communication paths; and

means for determining ~~determine~~ at least one communication path from the multiple simultaneous communication paths, wherein one communication path comprises a no-go zone configured to carry at least one data packet to the exclusion of other data packets to provide assured communication capability between at least two devices associated with the no-go zone.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claims 23, 36 and 45 are allowed.

The prior art discloses a vehicle comprising a first device and a second device, an network communicatively coupling the first and second data devices, and a plurality of devices communicatively coupled by the vehicle network and connection media being configurable to provide a plurality of communication paths between the first device and the second device for a communication between the first device and second device.

The prior art however fails to disclose or suggest a router configured to determine at least one communication path from the multiple simultaneous communication paths, wherein one communication path comprises a no-go zone configured to carry at least one data packet to the exclusion of other data packets to provide assured communication capability between at least two devices associated with the no-go zone.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Raj K. Jain whose telephone number is 571-272-3145. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RJ
October 26, 2006


CHI PHAM
SUPERVISORY PATENT EXAMINER 10/27/06